

# Notice of Allowability

Application No.

10/045,523

Examiner

Binh C. Tat

Applicant(s)

PANNALA ET AL.

Art Unit

2825

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 04/03/07. <sup>BT</sup>
2. ☒ The allowed claim(s) is/are 1,4-11,14,16-24,27,37 and 42-53. <sup>27</sup>
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 06/08/07.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
**JACK CHIANG**  
**SUPERVISORY PATENT EXAMINER**

## DETAILED ACTION

### EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Justin D. Wagner (Reg. No. 54,519) on 06/08/07.

The application has been amended as follow:

Claim 1 line 10, after "strengths" insertion --, wherein the sorting comprises, upon determining that the first connectivity strength is greater than the second connectivity strength, sorting the first connectivity strength higher than the second connectivity strength--.

Claims 2, and 3 have been cancelled.

Claim 5 line 1, after " comprising:" insertion –

inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 5 line 4, after "more;" insertion –

sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

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Claim 5 line 6 change “strength of” to – strength for--.

Claim 9 line 1, after “ comprising:” insertion –

inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 9 line 4, after “symbols;” insertion --

sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

Claim 9 line 6 change “of” to –for--.

Claim 12-13 have been cancelled.

Claim 14 line 12, after “strengths” insertion --, wherein the sorting comprises, upon determining that the first connectivity strength is greater than the second connectivity strength, sorting the first connectivity strength higher than the second connectivity strength--.

Claim 15 has been cancelled.

Claim 18 line 3, after “ in:” insertion –

inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 18 line 6, after “more;” insertion –

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sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

Claim 18 line 8 change “strength of” to – strength for--.

Claim 22 line 3, after “ in:” insertion –

inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 22 line 6, after “symbols;” insertion –

sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

Claim 22 line 8 change “of” to –for--.

Claim 23 line 1 change “claim 18’ to –claim 22--.

Claims 25, and 26 have been cancelled.

Claim 27 line 13, after “strengths” insertion --, wherein the sorting comprises, upon determining that the first connectivity strength is greater than the second connectivity strength, sorting the first connectivity strength higher than the second connectivity strength--.

Claim 28 has been cancelled.

Claim 31 line 4, after “ in:” insertion –

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inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 31 line 7, after “more;” insertion –

sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

Claim 31 line 9 change “strength of” to – strength for--.

Claim 35 line 4, after “ in:” insertion –

inputting a netlist, the netlist comprising nodes identifying a plurality of interconnected components, wherein each of the plurality of interconnected components is represented by a symbol--.

Claim 35 line 7, after “symbols;” insertion –

sorting the netlist at least in part according to the connectivity strength for the at least one pair of symbols;

generating symbols and connections formed according to the netlist and at least in part according to the connectivity strength for the at least one pair of symbols;--.

Claim 35 line 9 change “of” to –for--.

Claims 38-41 have been cancelled.

***Reasons for Allowance***

The following is an examiner's statement of reasons for allowance:

Claims 1, 4-11, 14, 16-24, 27, 29-37, and 42-53 are allowed because the prior art does not teach or suggest a computer implemented method, comprising: inputting a netlist, the netlist comprising: nodes identifying of interconnected components comprising a first component, second component, and third component, at least one connection between the second component and the third component; sorting the netlist at least in part according to connectivity generating, wherein the sorting comprises, upon determining that the first connectivity strength is greater than the second connectivity strength, sorting the first connectivity strength higher than the second connectivity strength; generating symbols and connections formed according to the netlist and at least in part according to connectivity strength; and generating a wiring harness diagram that comprises the symbols and the connections and with the combination of all other features corresponding to the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is 571 272-1908. The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh

Patent Examiner

June 9, 2007

  
JACK CHIANG  
SUPERVISORY PATENT EXAMINER